Send to: Mail Stop PCT, Commissioner for Patents

Express Mail No-EV 686,022,523 US

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FORM PTO-1390 (REV. 7-2005)					U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE						
•			ГТА	L LETTER TO	THE UNITED STATES						
		_			OFFICE (DO/EO/US)	U.S. APLICATION NO. (if known, see 37CFR 1.5)					
					N UNDER 35 U.S.C. 371	U.S. AT 107567282					
		ONAL APPLICA 004/017754	ATION		TERNATIONAL FILING DATE ne 4, 2004	PRIORITY DATE CLAIMED August 5, 2003					
TITL	E OF IN	IVENTION		· · ·							
		ER SYSTEM		D METHODS FOR INFE	RRING CAUSALITY FROM CELLULA	R CONSTITUENT ABUNDANCE DATA					
		hadt and Step		A. Monks	•						
App	licant	herewith sub	mits to	the United States Design	ated/ Elected Office (DO/EO/US) the follo	wing items and other information:					
1.	\boxtimes	This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.									
2.											
3.	\boxtimes	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.									
4.	\boxtimes	The U.S. has been elected (Article 31).									
5.	\boxtimes	A copy of the International Application as filed (35 U.S.C. 371(c)(2)).									
		a.		is attached hereto (requir	red only if not communicated by the Interna	itional Bureau).					
		b.		has been communicated	by the International Bureau.						
		c.	\boxtimes	is not required, as the ap	plication was filed in the United States Rec	eiving Office (RO/US)					
6.		An English	langua	age translation of the Inter	national Application as filed (35 U.S.C. 37)	(c)(2)).					
		a.		is attached hereto.							
		b.		has been previously sub-	nitted under 35 U.S.C. 154(d)(4).						
7.	\boxtimes	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))									
		a.		are attached hereto (requ	ired only if not communicated by the Intern	national Bureau).					
		b.		have been communicated	d by the International Bureau.	•					
		c.		have not been made; how	vever, the time limit for making such amen	dments has NOT expired.					
_		d.	\boxtimes	have not been made and							
8.		An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).									
9.	\boxtimes	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)) - unexecuted.									

An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C.

Items 11. to 20. below concern document(s) or information included:

An Information Disclosure Statement under 37 CFR 1.97 and 1.98.

371(c)(5)).

12.		An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13.	\boxtimes	A preliminary amendment.
14.		An Application Data Sheet under 37 CFR 1.76.
15.		A substitute specification.
16.		A power of attorney and/or change of address letter.
17.	\boxtimes	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter 2 and 37 CFR 1.821-1.825.
18.		A second copy of the published International Application under 35 U.S.C. 154(d)(4).
19.		A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).
20.	\boxtimes	Other items or information: International Publication No. WO 2005/017652 A2 dated February 24, 2005 (of PCT/US2004/017754)

This collection of information is required by 37 CPR 1.414 and 1.49.1-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed from to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IAP12 Rec'd PCT/PTO 03 FEB 2006

US APPLICATION N	3°/576°	7282	N NO.	9301-2		OOCKET NUMBER 9					
The following fee	ubmitted:		\$300.00								
	21. A Basic national fee										
22. Examinat					O or did the Int						
Preliminary Examination Report prepared by the USPTO indicate that all filed claims in this U.S. application satisfy provisions of PCT Article											
33(1)-(4) (i.e., novelty, inventive step and industrial capability)?											
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examination report prepared by the USPTO indicate that all claims satisfy provisions of PCT Article 33(1)-(4) (i.e., novelty, inventive step and industrial capability)?											
	•						\$100.00				
ii) If no:		Φ100.00									
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(b) An International Search Report prepared by an ISA other than the											
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Applicant cla	ims sm	all entity stat	us See 37	CFR 1	27. The fees inc	licated abov	e are reduced	!		40.00	
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Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be									 		
accompanied by a									\$	\$0.00	
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TOTAL FEES ENCLOSED										·	
								Amount to be refunded: charged: \$7590.00			£7500.00
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c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-3013. A copy of this sheet is enclosed.											
Note: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the International Application to pending status.											
24. All correspondence for this application should be mailed to JONES DAY 20583											
l	-				iane M. Antler						
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Adriane M. Antler NAME SIGNATURE 32,605 REG. NO. DATE											
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10/567282

Express Mail, No.: EV 686 022 523 US 12 HEC 0 PCT/PTO 03 FEB 2006 IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of:

Schadt et al.

Confirmation No.:

To be

determined

Serial No.:

To be assigned, National Stage of

International Application No.

of Art Unit:

To be determined

PCT/US2004/017754

Filed:

June 4, 2004

Examiner:

To be assigned

For:

COMPUTER SYSTEMS AND METHODS FOR INFERRING

Docket No.:

9301-237-999

CAUSALITY FROM CELLULAR
CONSTITUENT ABUNDANCE

DATA

TRANSMITTAL OF SEQUENCE LISTING

Mail Stop PCT Commissioner for Patents P. O. Box 1450 Alexandria, Virginia 22313-1450

Sir:

In connection with the above-identified application, and in accordance with 37 C.F.R. § 1.821, Applicants submit herewith a Sequence Listing in paper and computer-readable format pursuant to 37 C.F.R. §§ 1.821(c) and (e).

I hereby state that the content of the paper and computer-readable copies of the Sequence Listing, submitted in accordance with 37 C.F.R. §§ 1.821(c) and (e), respectively, are the same and add no new matter to the instant application. I further hereby state that the content of the paper and computer-readable copies of the Sequence Listing submitted herewith are identical to the sequence listing filed in International Application No. PCT/US2004/017754 on October 29, 2004 in response to the Invitation to Furnish a Nucleotide and/or Amino Acid Sequence Listing Complying with Standard issued by the International Searching Authority on September 30, 2005.

Date

February 3, 2006

Respectfully submitted,

32,605

Adriane M. Antl

(Reg. No.)

JONES DA

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New York, New York 10017

(212) 326-3939

Enclosures